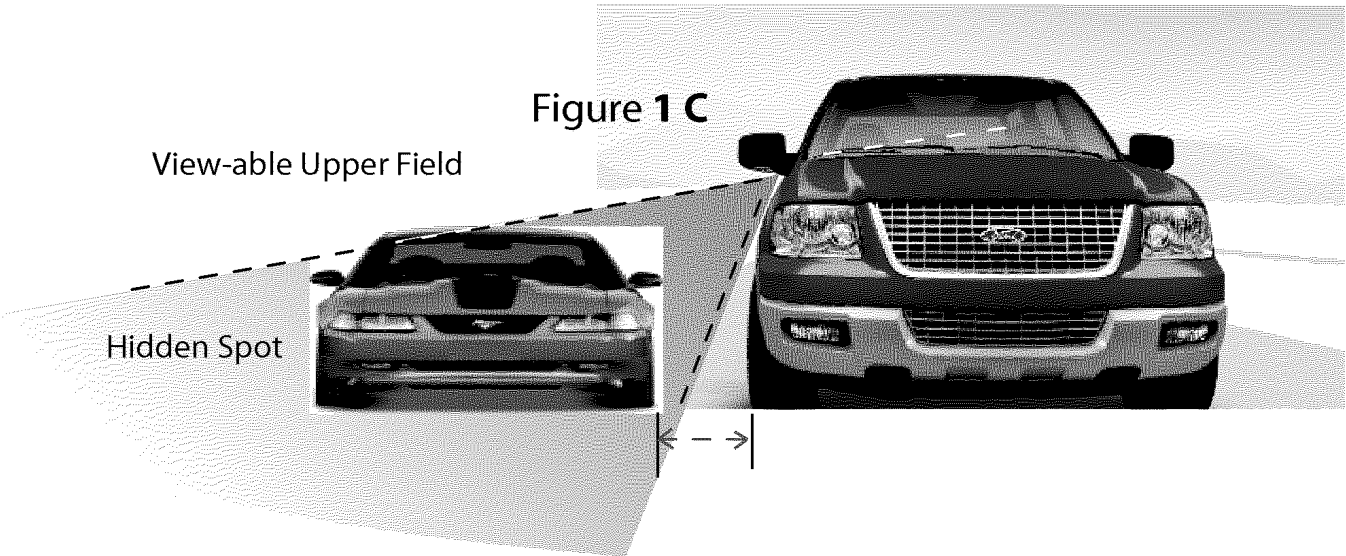
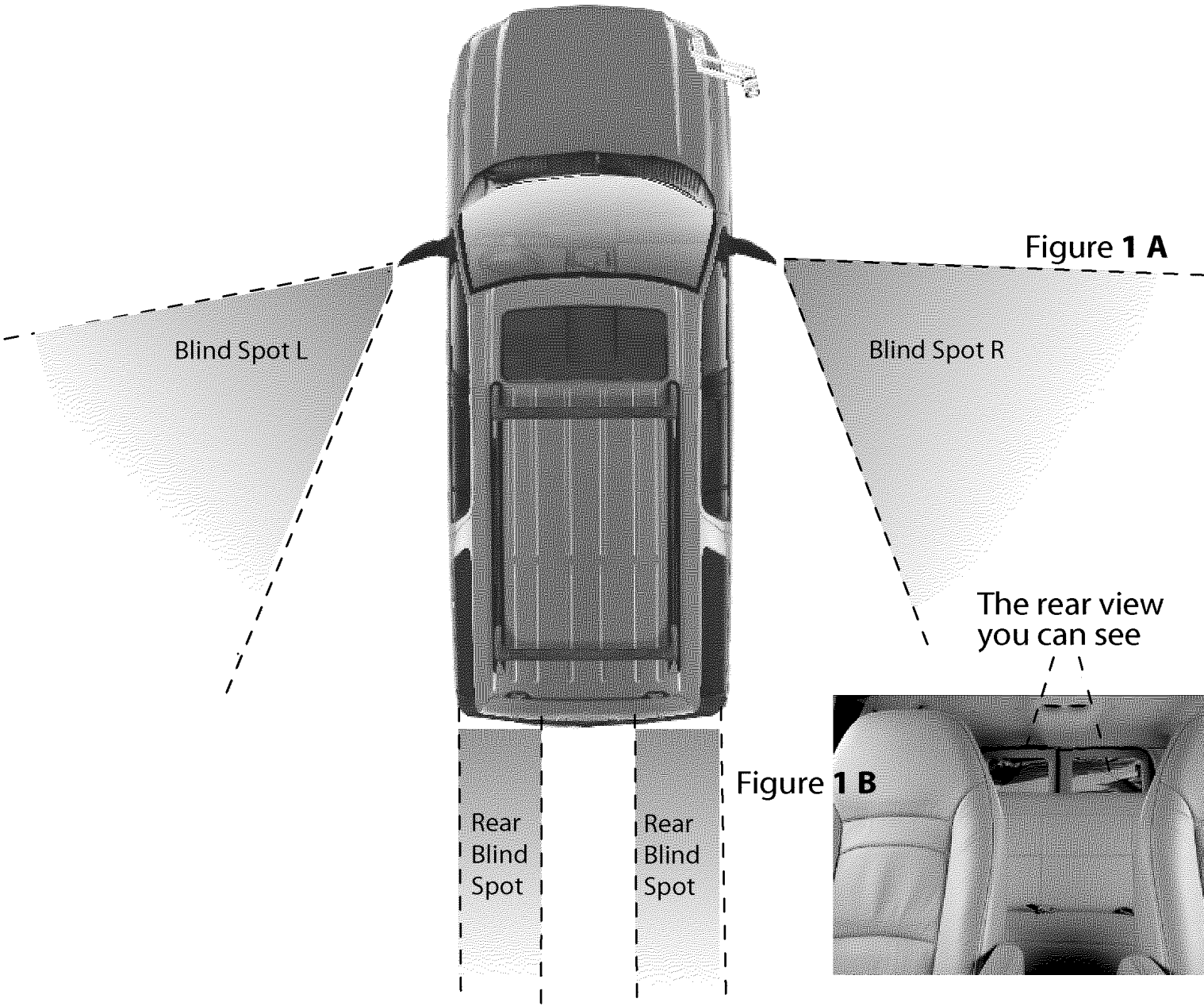


1. Driver's Blind View Spots



2. Driver's Other Blind Spots & Problems of Single Rear View Camera

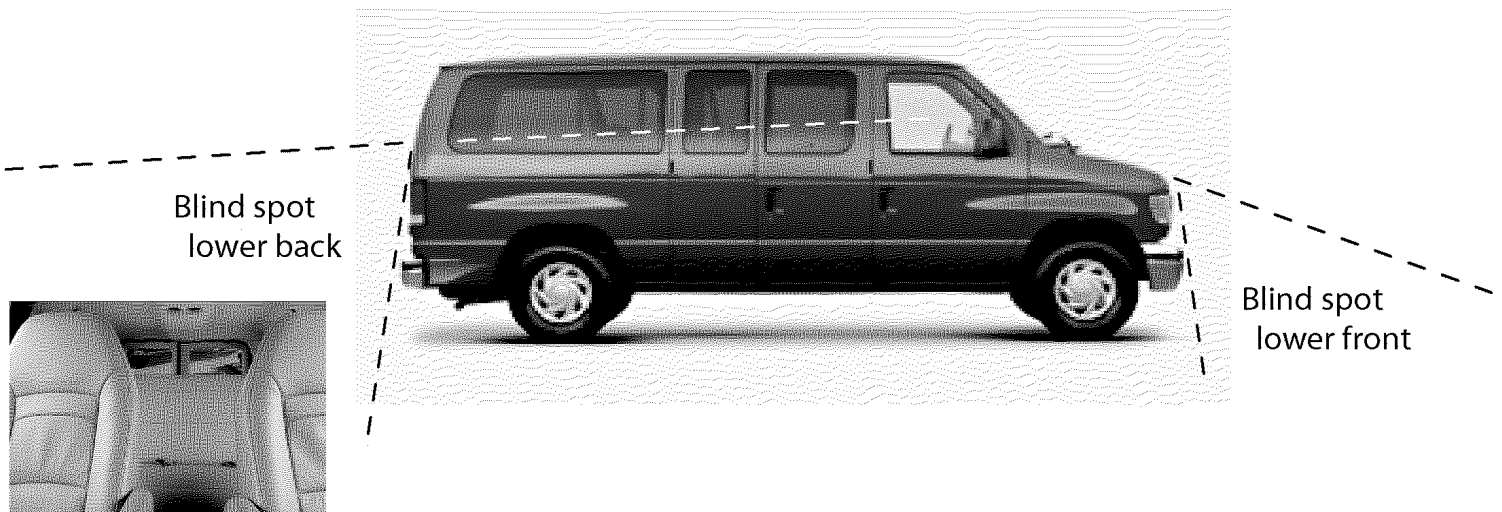
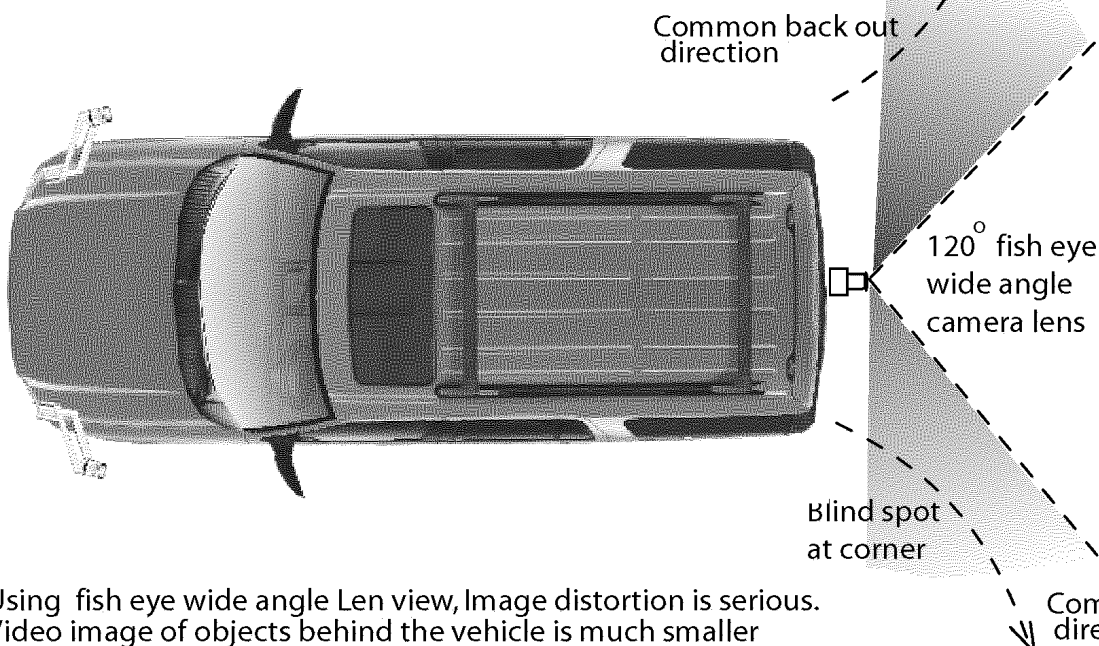


Figure 2B

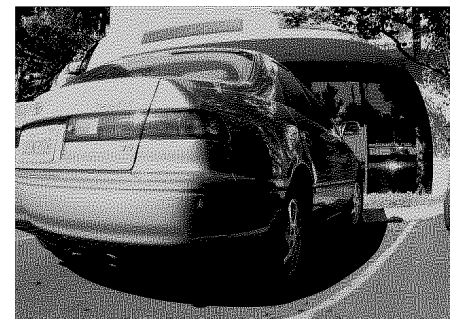
Figure 2C

Single camera rear view problems



1. Blind spots at both side corners

Figure 2D



2. Convex outward distortion

Can not tell how far is the rear vehicle away from you !

Using fish eye wide angle lens view, Image distortion is serious. Video image of objects behind the vehicle is much smaller than image in side mirrors. Can not measure the depth to object in behind.

3. Opto-Electronic CCD Cameras Eyes & Lens

Ultra Sensitive CCD, Super Night Vision Stars light View in Countryside
Day & Night High Dynamic Luminous Processing with DSP Chip
High Bright , High Optical Power & Low Distortion Lens

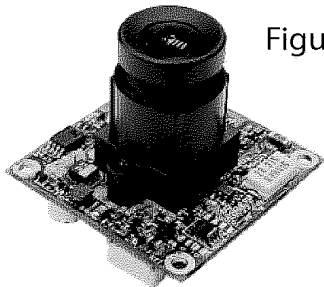
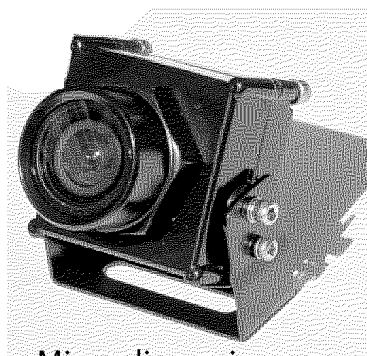


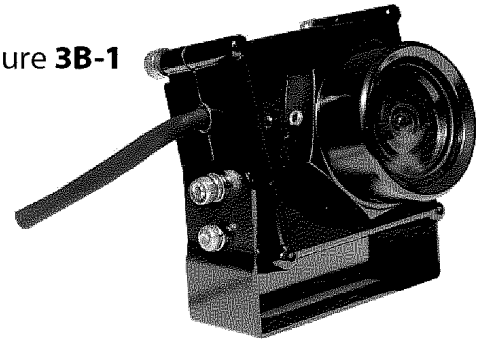
Figure 3A

CCD camera PCB uses high tolerant luminix circuit design & the 6th generation DSP*chip



Micro dimensions
47 x 47 X 47 mm only

Figure 3B-1



+ Water proof rust-free
aluminum enclosure



Figure 3B-2

Auto Focus Lens 60°-15° degree
for central rear 200 feet view.
CS mount Len

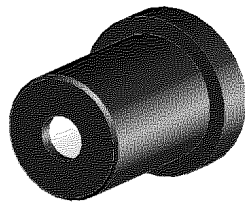
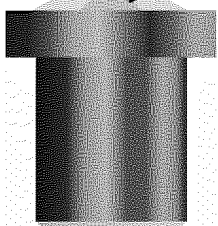
DSP = Digital Signal Processor
CCD = Couple Charged Device

New Design to Improve Focal Lens Image Definition & Distortion

Semi spherical type wide angle typical focal Len
using in 1 camera type rear view

110-130°

Figure 3C-1

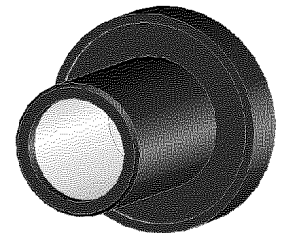
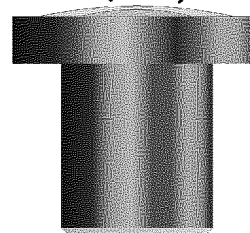


4.5 mm small Len hole
low image quality,
low brightness &
serious edge distortion

Lite arch 90° right angle Len
using dual camera for rear view

90°

Figure 3C-2



8.5 mm twice large Len hole,
high definition sharp image,
high sensitive & high bright,
High optical power, Low distortion

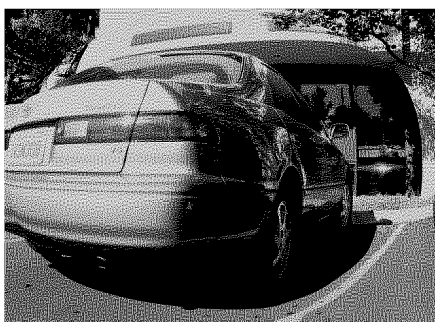


Figure 3D

Typical focal Len serious edge distortion



Custom made focal Len is low distortion

4. On Dash Mount Dual LCD Screen e-Mirrors

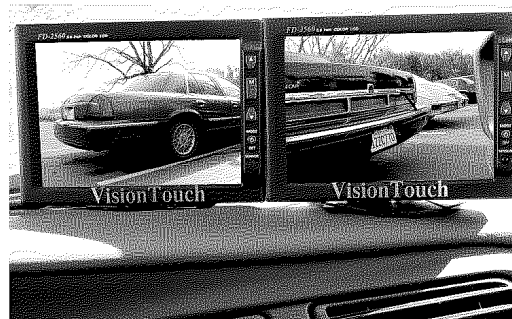
Auto or Manual Switch to Side view / Rear view

Figure 4A

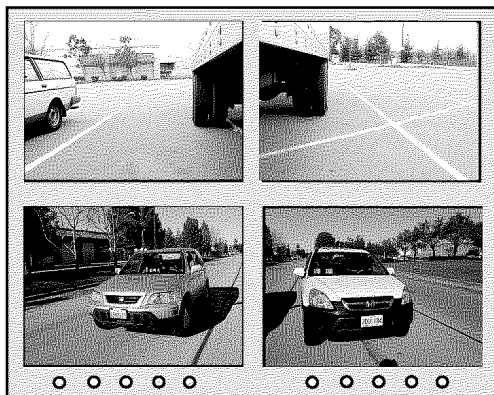
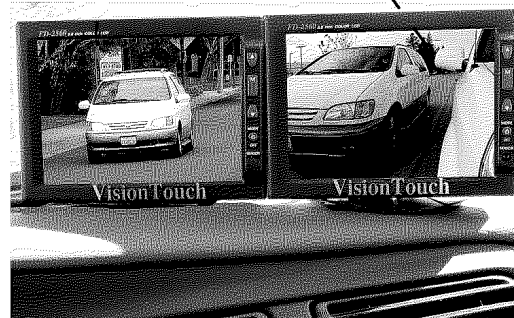


Display at 320 X 234 resolution progressive video

The Dual e-Mirrors for small vehicles
Rear View Mode



Switch-able to
Rear View Zoom in & Side View Mode
Figure 4B



**Quad Split
2 X 2 Screen
e-Mirrors**

Figure 4C
For Large Vehicles



5. License Plate L-R Stereo Mount Cameras Technique

A Uniform Mount For All Vehicle

Figure 5 A

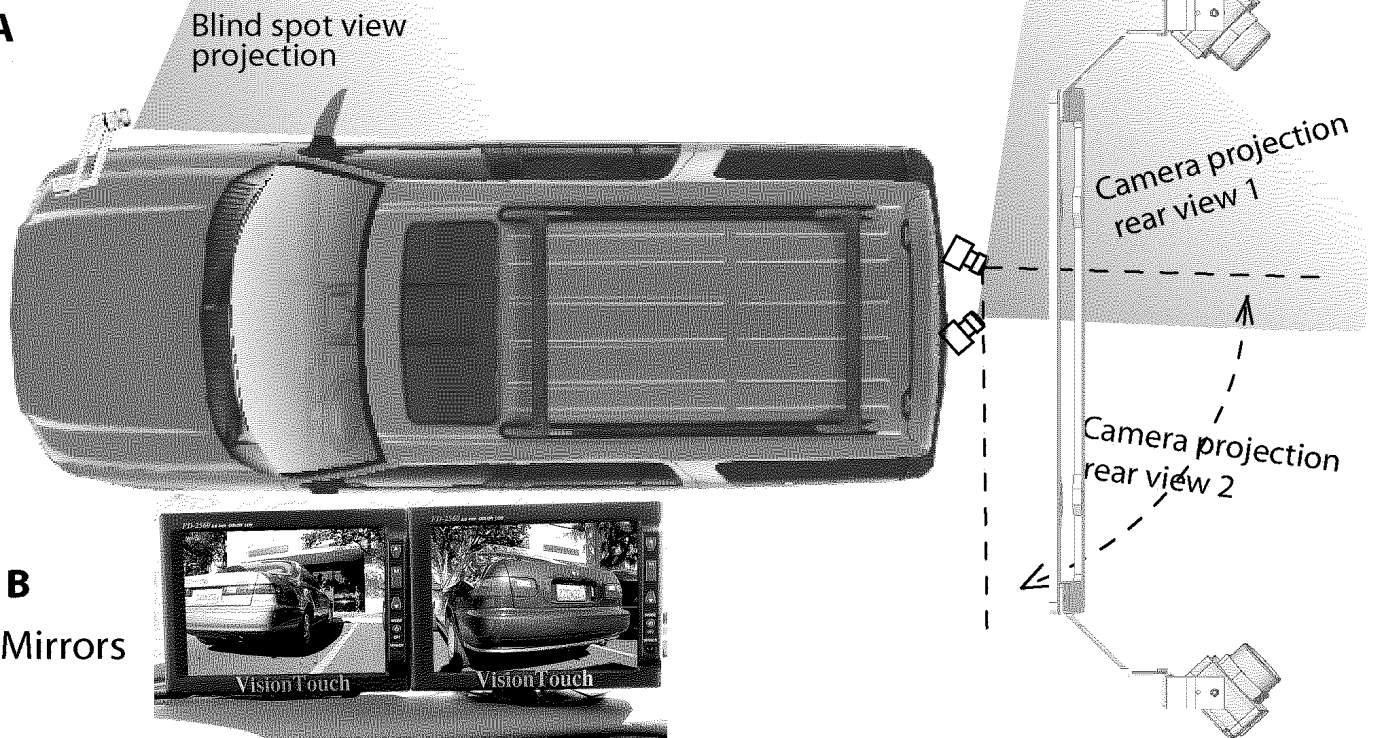


Figure 5 B

The e-Mirrors

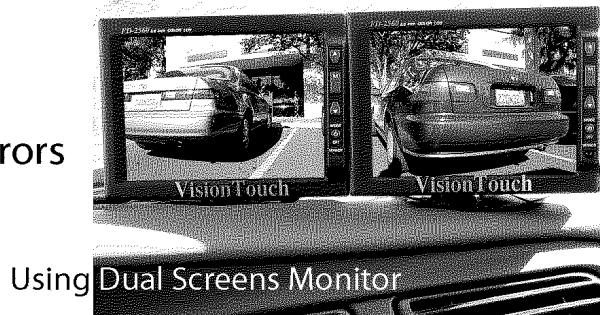
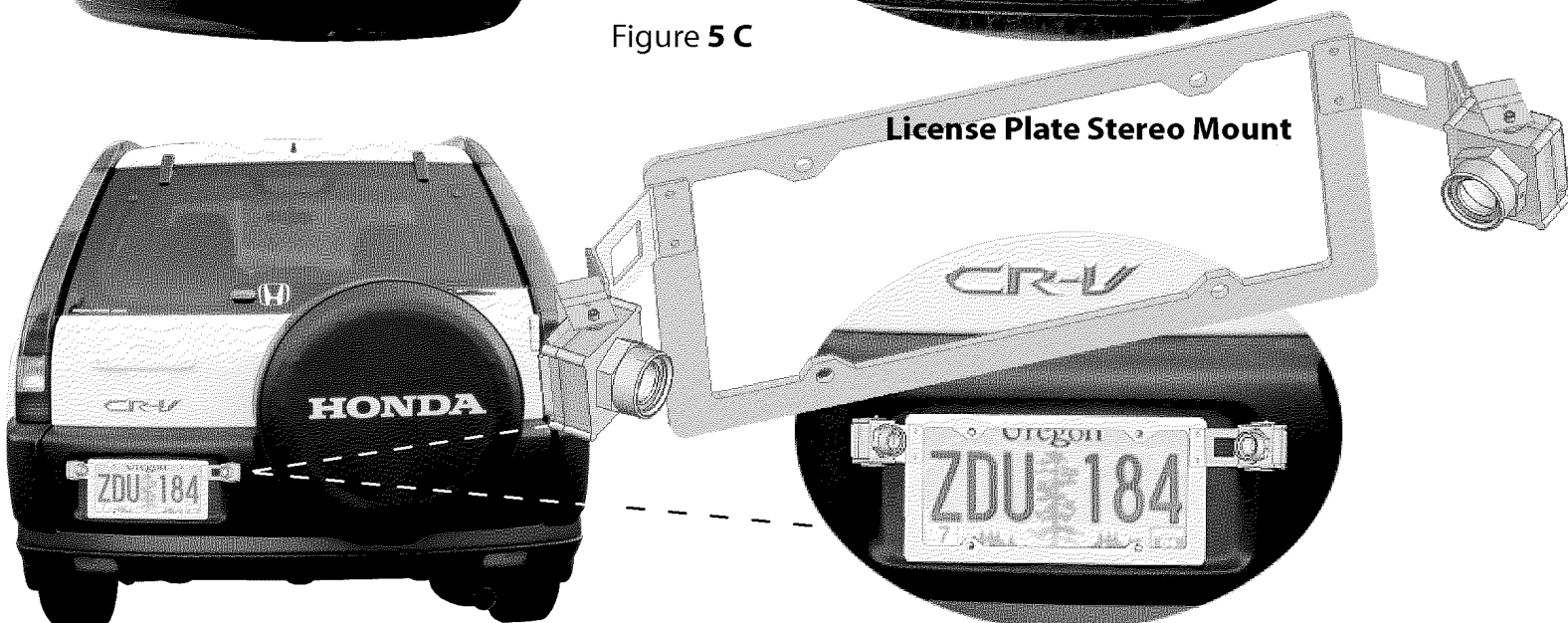


Figure 5 C



6. Dual Cameras Rear Object Detection Technique

with Uniform License Plate On Frame Mount

fit to all vehicles

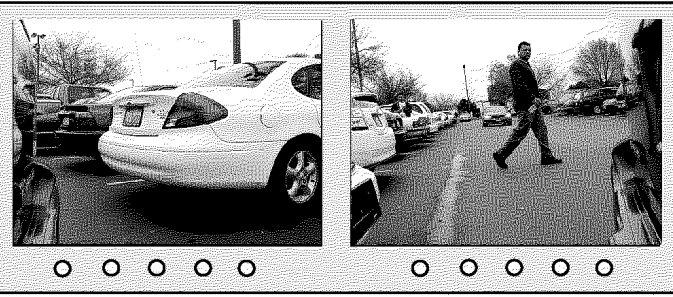
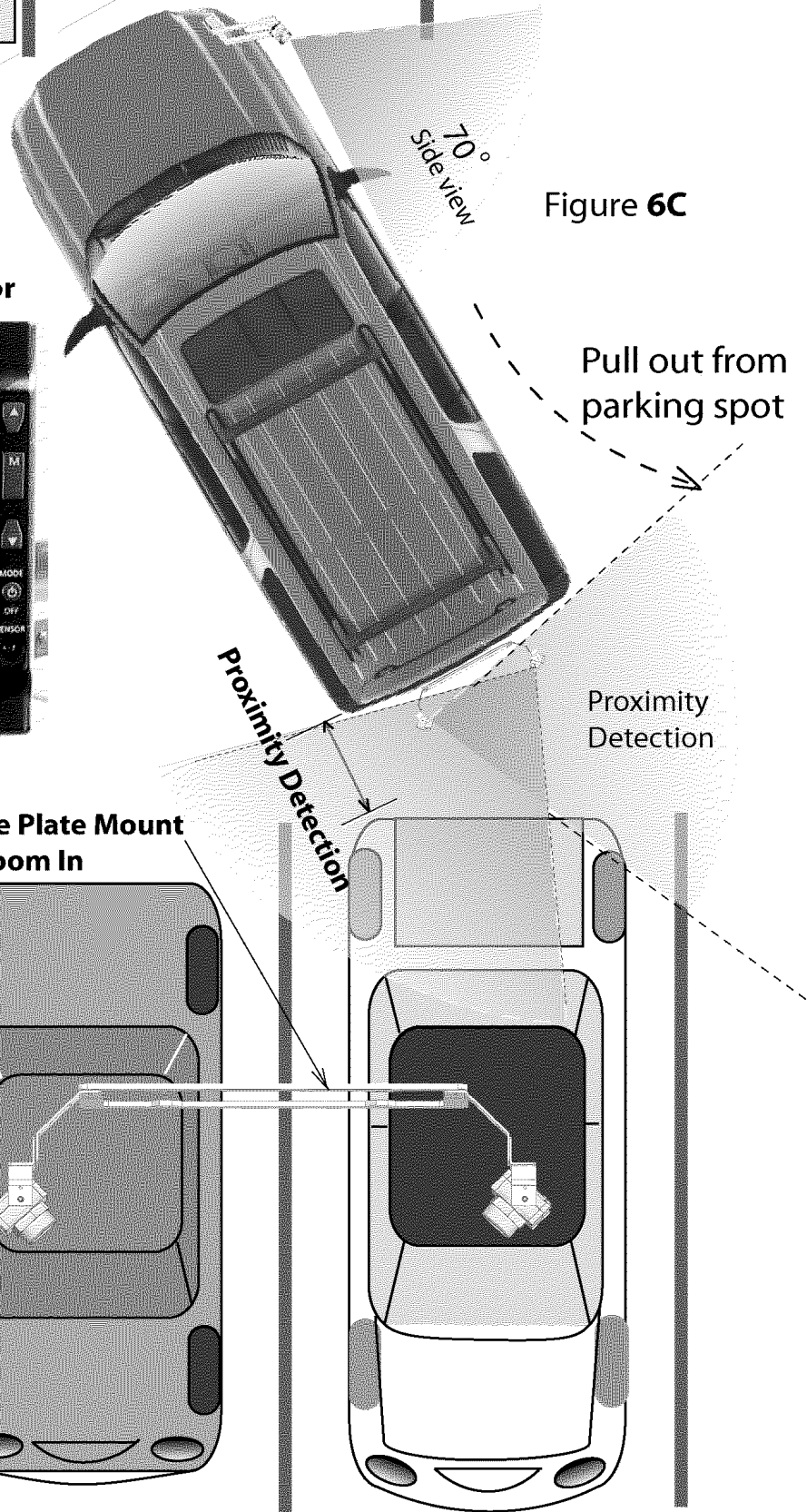
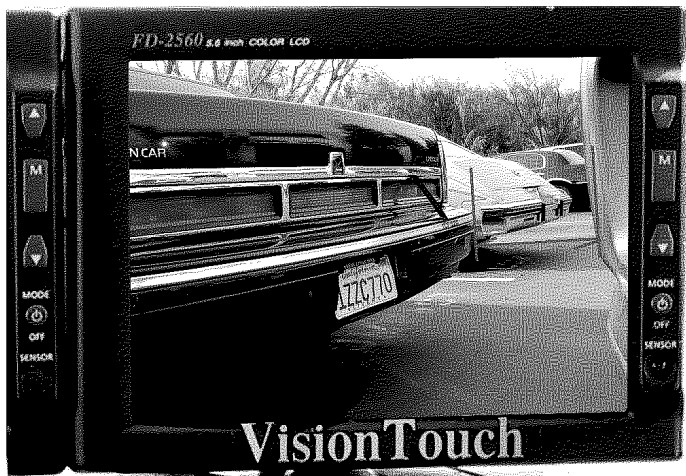


Figure 6A

Rear side walk people
or bike detection

Figure 6B

Approaching detection in the e-Mirror



7. Better Proximity Detection Rear Corner Mount Technique with Dual Cameras Corner Mount



Figure 7A Proximity View at lower

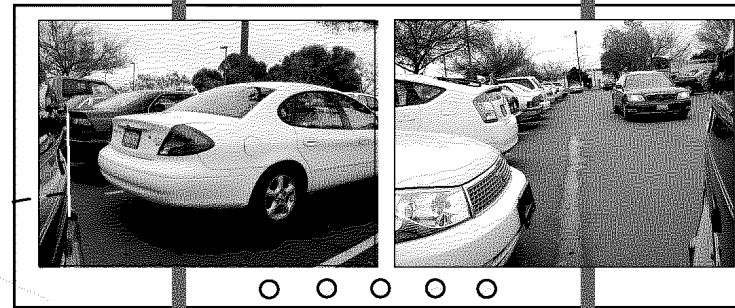


Figure 7C

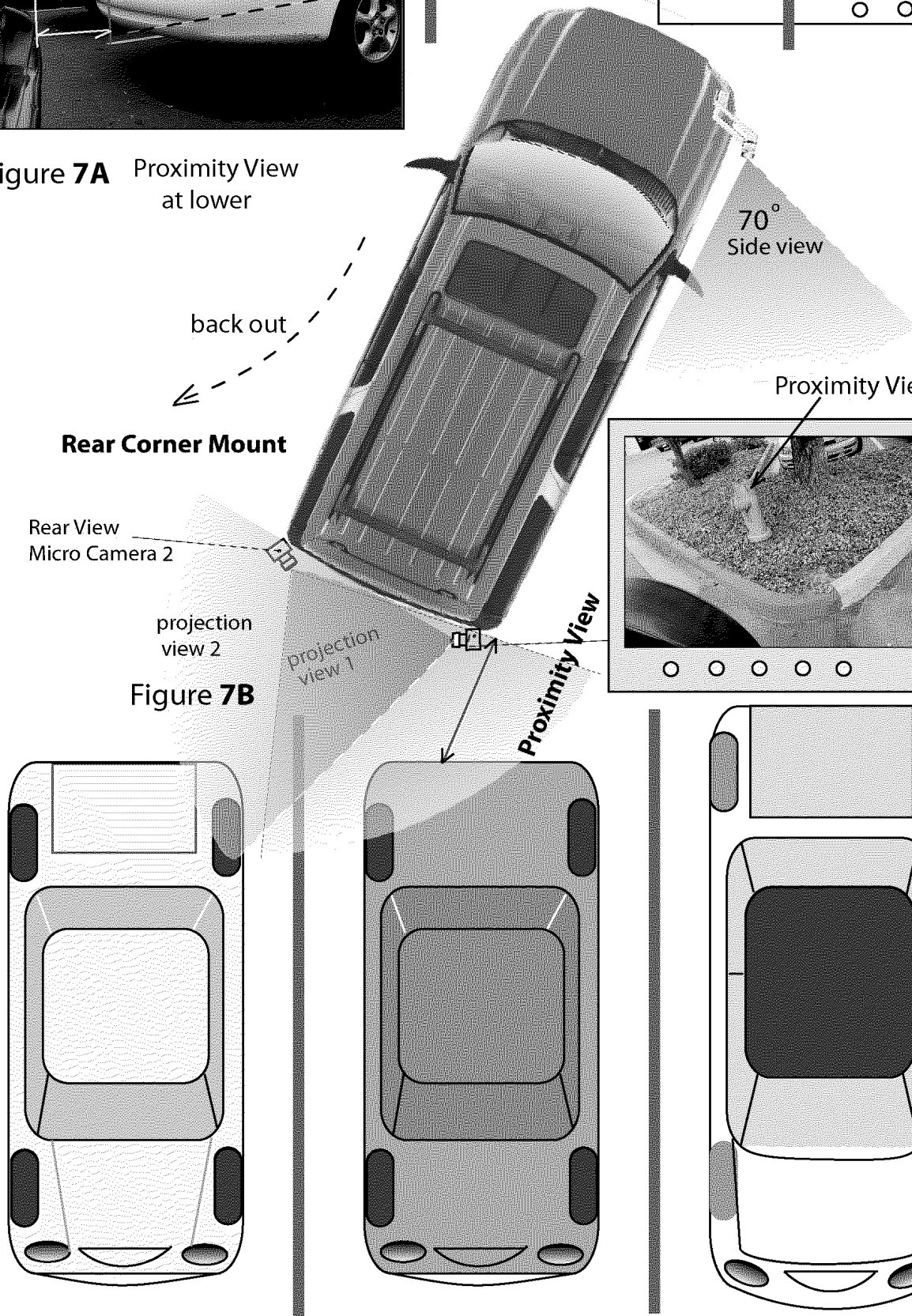
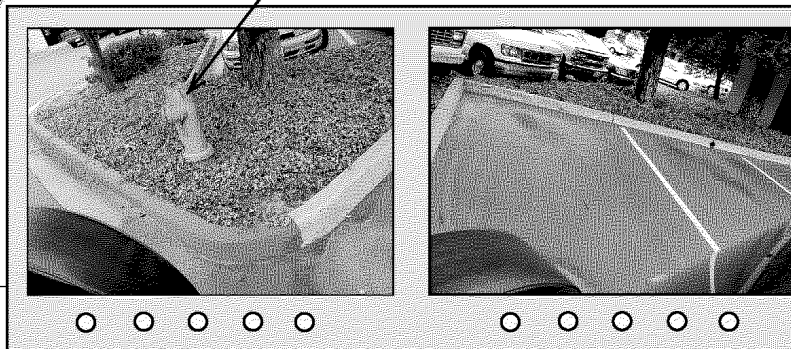


Figure 7B



180° Rear view

8. Object Approaching Detection At Blind Spot

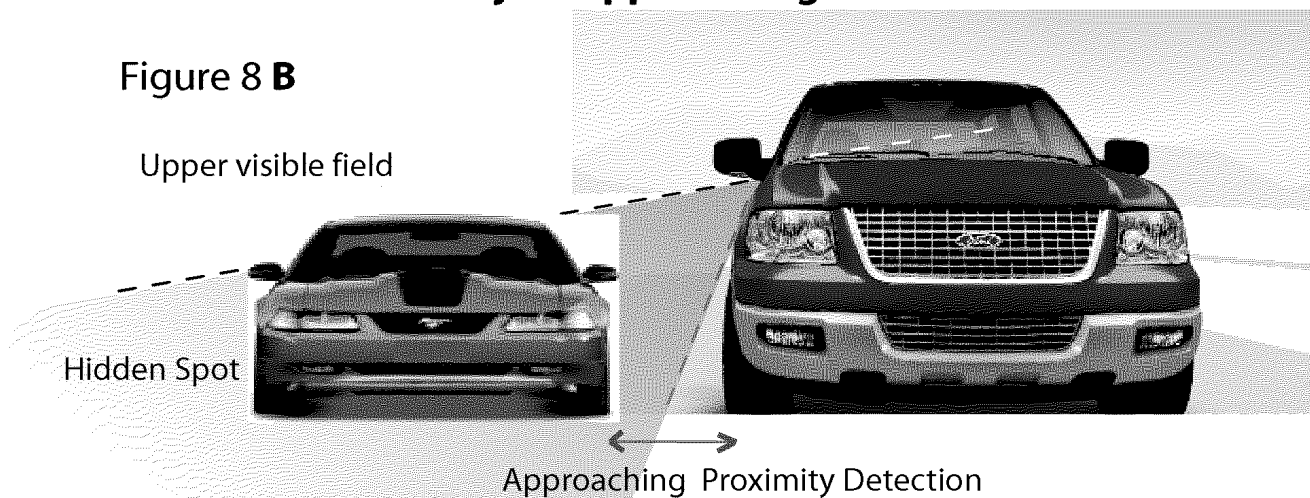
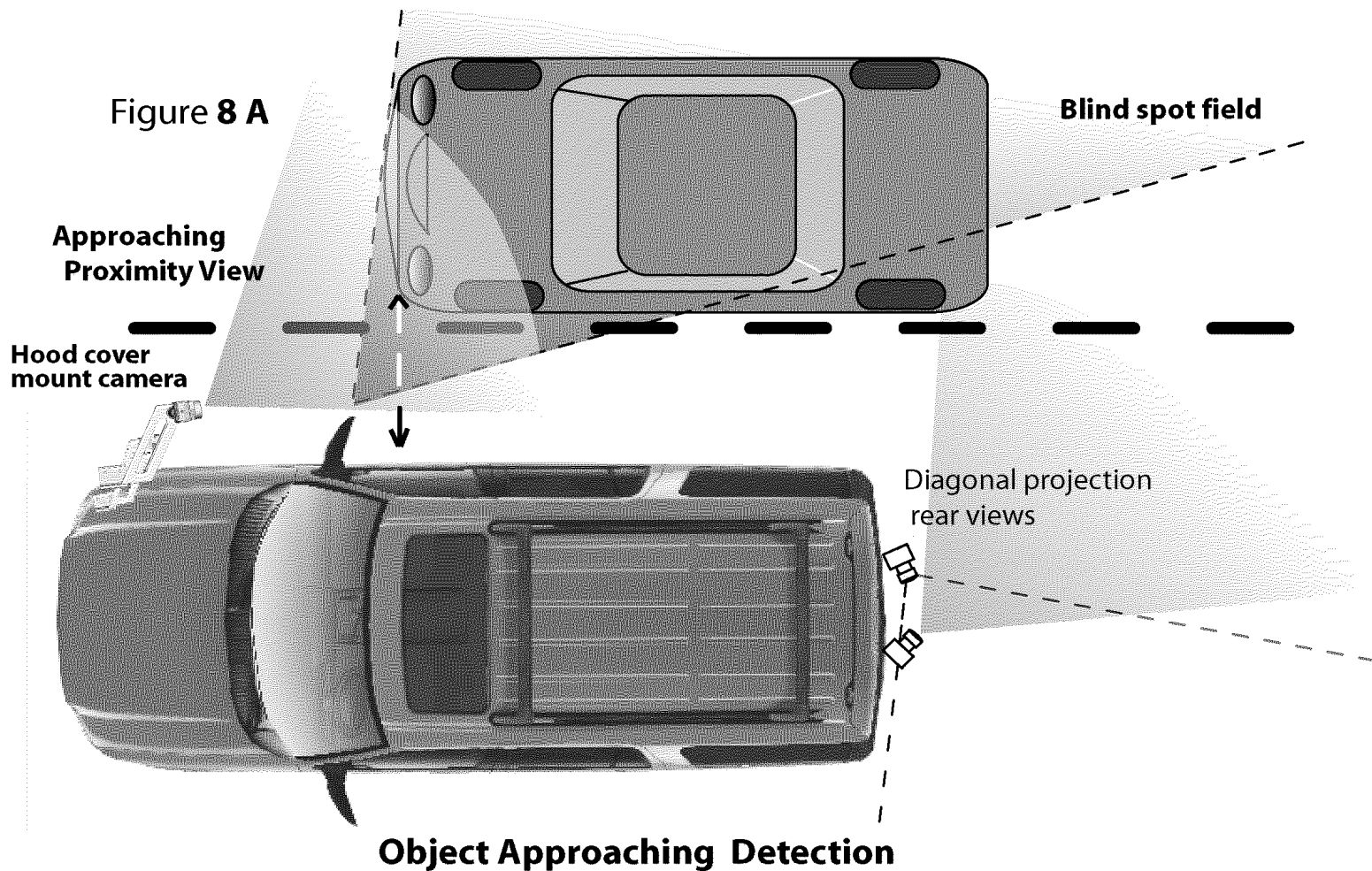
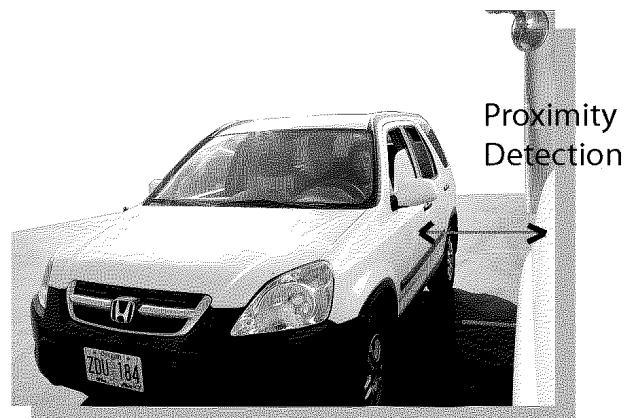


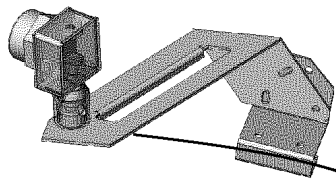
Figure 8 C



Camera view on right blind spot of a truck

9. Hood Front Corner Side Edge Mount Technique

No visible drilling holes on shiny coating of vehicle



The camera is mounted outside of the vehicle a few inches away.

Figure 9A

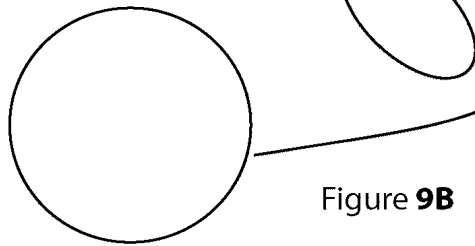
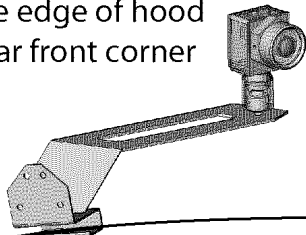


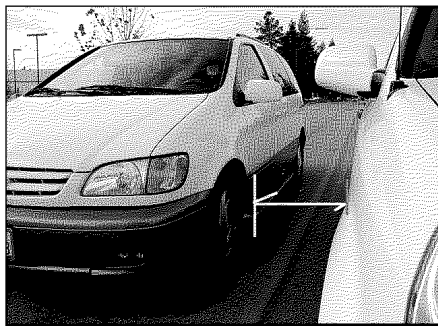
Figure 9B

Bracket is attached on side edge of hood near front corner



Bracket is attached on side edge of hood near front corner

No screw drilled holes on visible surface



Front Corner Blind Spot View

70° Blind Spot view

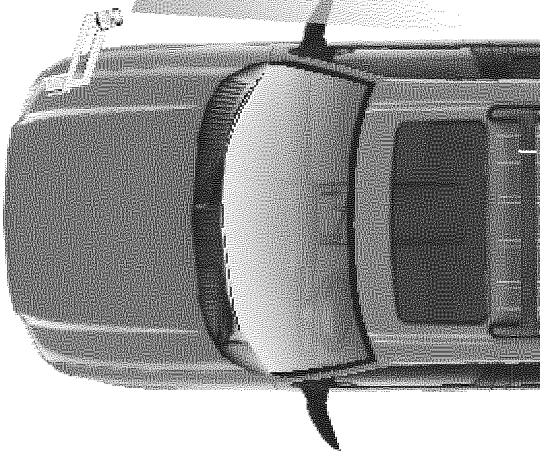
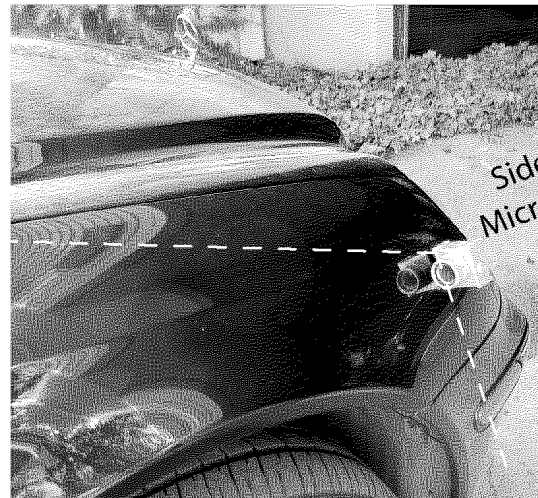


Figure 9C

An easy glue stick able mount



Side Views Micro Cameras

10. Truck & Tow Truck e-Mirrors Setting

Optional Lens
60° to 90°

Angle View
Adjustable

Container Truck

Figure 10A

The Large e-Mirror
using quad split single LCD panel

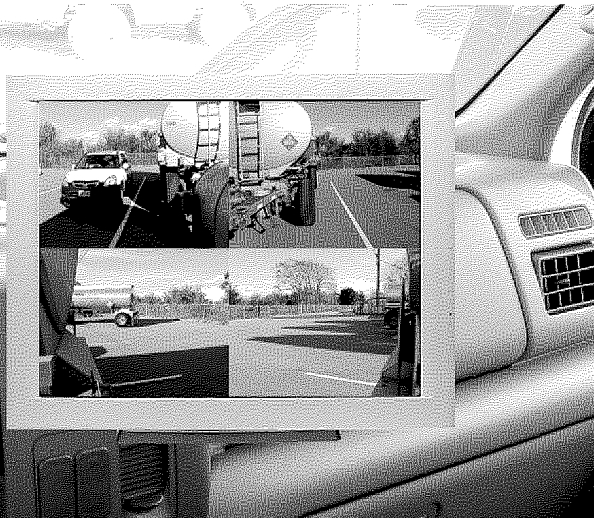


Figure 10B

Large e-Mirrors using
4 LCD panels integration

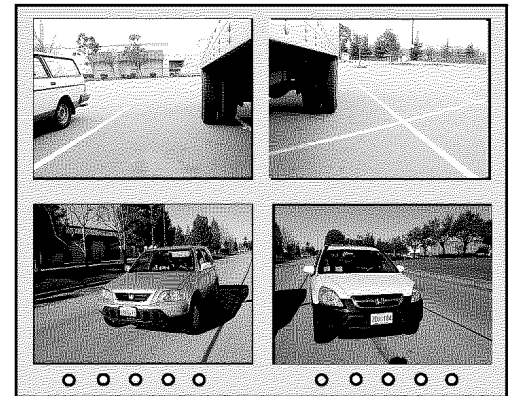


Figure 10E

Gas Tank Truck + Trailer

Figure 10C

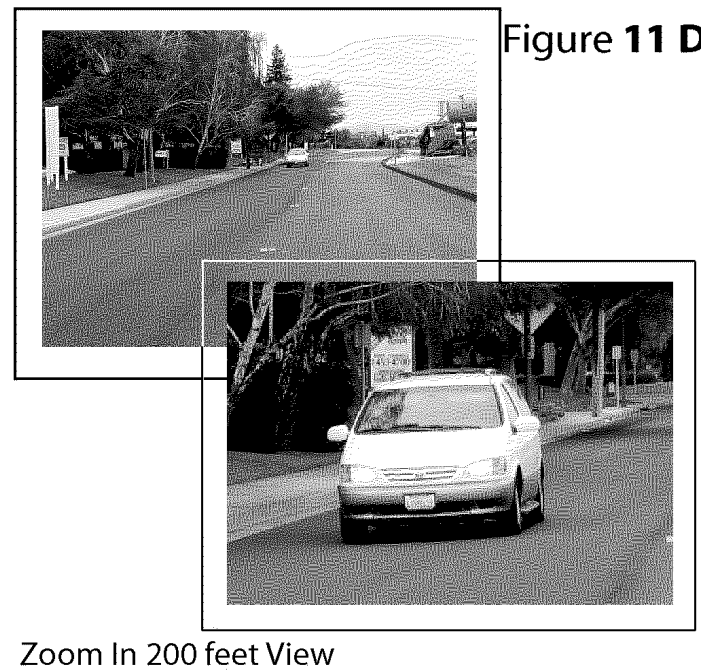
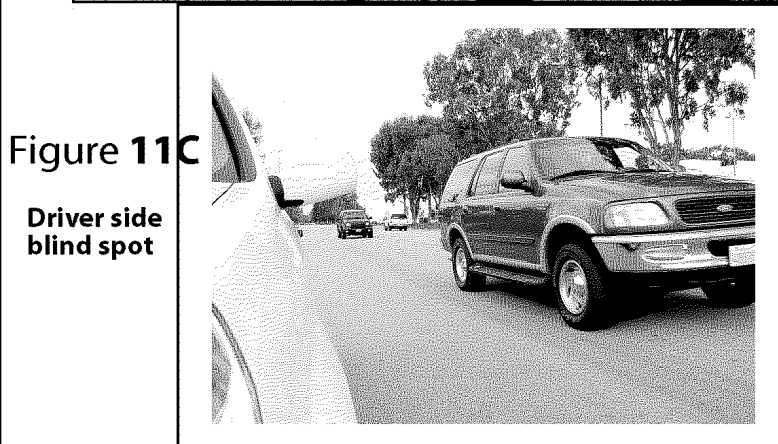
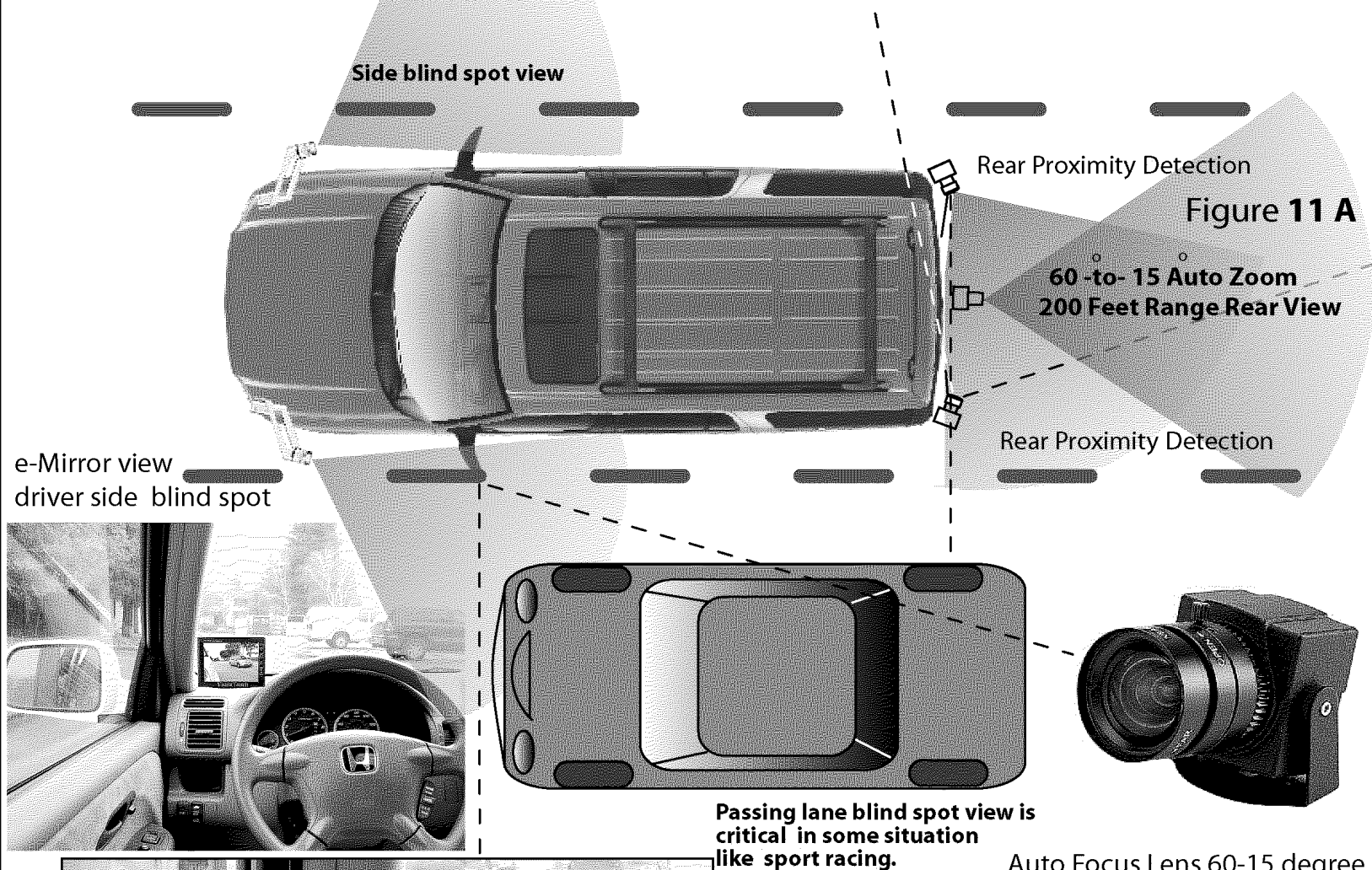
Angle View
Adjustable

Tow Truck on Dash e-Mirrors



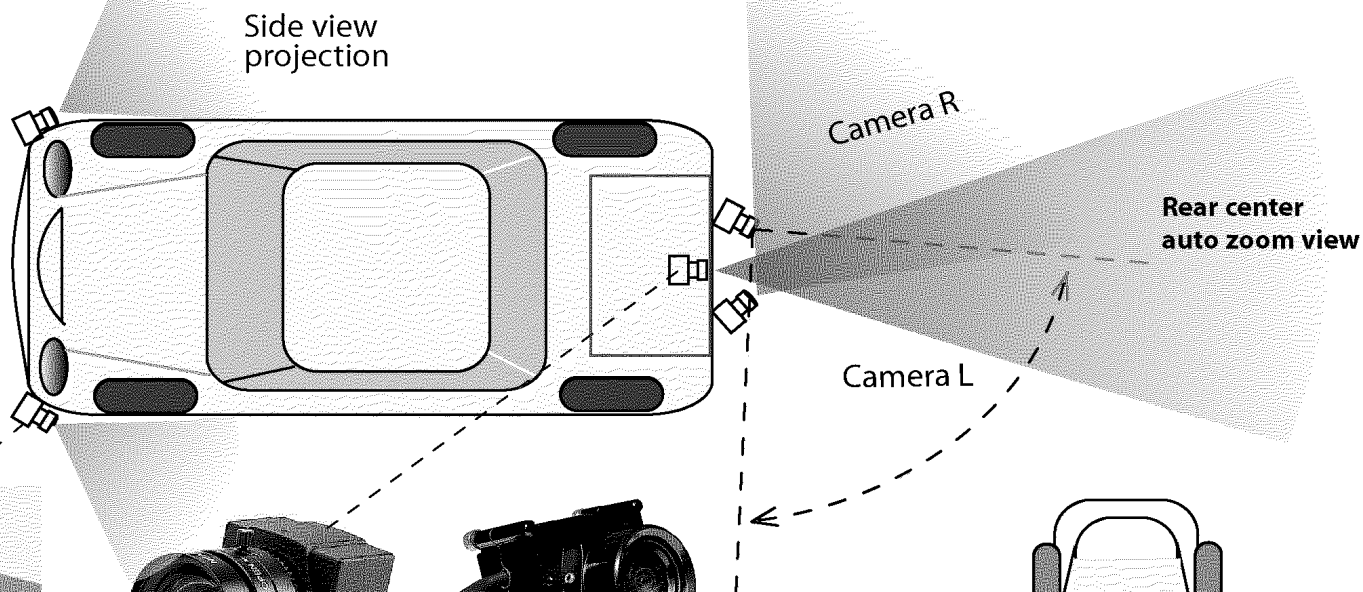
11. Panoramic High Safety Views for Mission Vehicles

Military Vehicles, Highway Patrol , Border Patrol,
Police Vehicles, Secret Service Vehicles, Fire truck
Armored Truck, Overman Vehicles, Sport & Racing Vehicles,



12. Multi-Cameras, LCD e-Mirrors & Quad Video Processor Configurations

Figure 12 A



Driver side camera

Rear center auto zoom camera

Passenger side camera

Figure 12 B

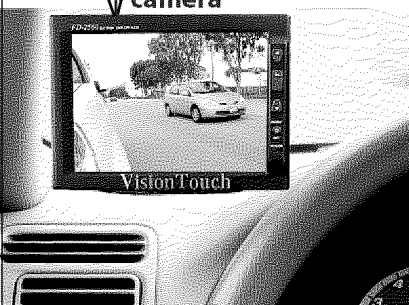


Figure 12 C

License plate cameras

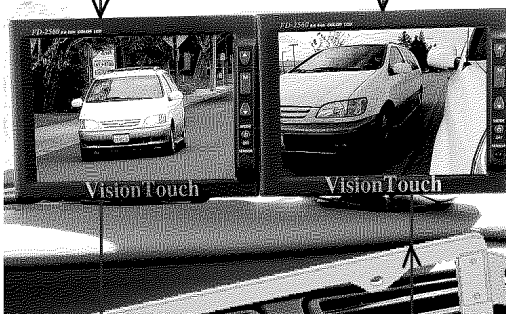
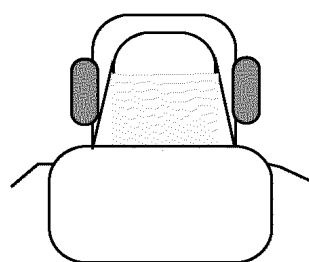


Figure 12 D



For Large Vehicles

Digital Quad Split Processor
Options : B/W; Color

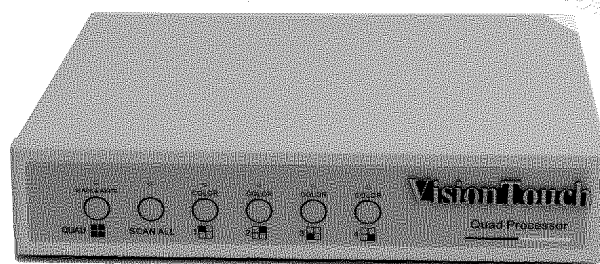


Figure 10A

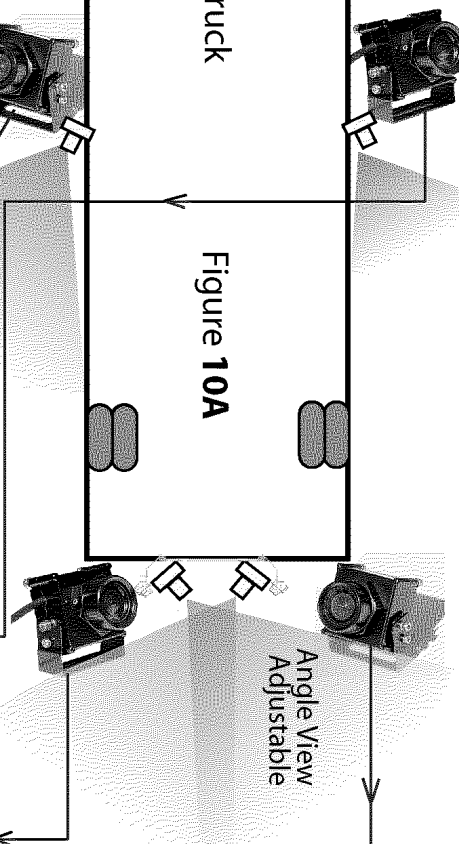


Figure 12 E

